

Fahd Abdu almekhlafi

B.Sc., M.Sc., Ph.D



PERSONAL DETAILS

Title: Dr
Current position: Assistant Professor
Date of Birth: 24 / 8 / 1973
Nationality: Yemeni
Address(work): Bioproducts Research Chair
Zoology Department
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King Saud University
Riyadh. Kingdom of Saudi Arabia
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EDUCATION

Ph.D September, 2005 - February, 2010: Entomology, Dept. of Zoology, University of King Saud , Riyadh , **titled:** Biological and Toxicological Aspects on Black Samsum Ant, *Pachycondyla sennaarensis* (Hymenoptera: Formicidae) in Selected Regions in the Kingdom of Saudi Arabia.

M.S.c September, 1999 - September, 2002. Economic Entomology, Plant Protection Dept, Mosul University, Iraq, **Title:** biological effect of insect growth regulators (trigard) on *Callosobruchus maculatus* (Fab.) (Bruchidae: Coleoptera) *Phthoromaea operculella* (Zell.) (Gelechiidae: Lepidoptera).

B.sc. May, 1995. Plant Protection, Plant Protection Dept, University of Sana'a Yemen.

APPOINTMENTS

Assistant Professor	Aug, 2010- present: Zoology Department, Bioproducts Research Chair, Faculty of Science, King Saud University, Kingdom of Saudi Arabia.
	March, 2010- July 2010: Agricultural production Department, Faculty of Agriculture and Veterinary Medicine, Tamar University, Tamar, Yemen
Lecturer	May, 2003- May 2005: Agricultural production Department, Faculty of Agriculture and Veterinary Medicine, Tamar University, Tamar, Yemen.
Research Assistant	March 1997- Aug 1999: Agricultural production Department, Faculty of Agriculture and Veterinary Medicine, Tamar University, Tamar, Yemen.

Teaching

Institution	Course No	Course
King Saud University	ZOO 511	Applied Entomology and Parasitology
	ZOO 519	Medical Entomology
	ZOO 317	(Medical Arthropods)
	ZOO 311	General Entomology
	ZOO 103	Principles of Zoology
	ZOO 305	Modern Animal Taxonomy
	ZOO 413	Insects and Environmental Health
Tamar University		General Entomology
		Principles of Zoology
		Basics of Plant Protection
		honey bee
		Economic Entomology
		Principles of Botany

RESEARCH INTEREST

- 1- Insect Biological Control: Investigating new natural plant extract suitable for use as biological control agents
- 2- Forensic Entomology
- 3- entomology environment

PUBLICATIONS

A. Peer-Reviewed Articles

1. Nael Abutaha, **Fahd A. Al-Mekhlafi**, Lamya Ahmed Al-Keridis (2017). Larvicidal Potency of Selected Xerophytic Plant Extracts on *Culex pipiens* (Diptera: Culicidae) Mosquito. Appl Entomol Zool, (Submitted)
2. Ashraf Mohamed Ali Mashaly, Mostafa Sharaf, **Fahd A. Al-Mekhlafi**, Medghom Al-Subaie, Abdulrahman S. Aldawood (2016). Ants (Hymenoptera: Formicidae) attracted to sun exposed clothed, shaded and burnt rabbit carcasses at three different habitats. Sociobiology (Submitted).
3. Jamal M. Khaled, **Fahd A. Al-Mekhlafi**, Ramzi A. Mothana, Naiyf S. Alharbi, Khalid E. Alzaharni, Anwar H. Sharafaddin, Shine Kadaikunnan, Ahmed S. Alobaidi, Noofal I. Bayaqoob, Marimuthu Govindarajan9 & Giovanni Benelli (2017). *Brevibacillus laterosporus* isolated from the digestive tract of honeybees has high antimicrobial activity and promotes growth and productivity of honeybee's colonies. Environ Sci Pollut Res (DOI 10.1007/s11356-017-0071-6)
4. **Fahd A. Al-Mekhlafi**. (2017). Larvicidal activity of some fungal extracts on *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). Entomological Research.47: 388-393.
5. **Fahd A. Al-Mekhlafi**. (2017). Larvicidal and Ovicidal activities, histopathological alteration induced by *Carum copticum* extract in *Culex pipiens* (Diptera: Culicidae). Saudi Journal of Biological Sciences, (<https://doi.org/10.1016/j.sjbs.2017.02.010>).
6. Ashraf M. Ahmed, Hamdy I. Hussein, Talat A. El-Kersh, Yazeed A. Al-Sheikh, **Fahd A. Al-Mekhlafi**, Mohamed S. Ibrahim, Jameel Al-Tamimi1 and Fahd A. Nasr. (2017). Activities of Indigenous *Bacillus thuringiensis* Isolates and Nematode Symbiotic Bacterial Toxins against the Mosquito Vector, *Culex pipiens* (Diptera: Culicidae). Journal of Arthropod- Borne Diseases. 11(2): 260–277.
7. **Fahd A. Al-Mekhlafi** , Nael Abutaha, Ashraf M. A. Mashaly, Fahd A. Nasr, Khalid E Ibrahim, Mohamed A. Wadaan (2017). Biological Activity of *Xanthium strumarium* Seed Extracts on Different Cancer Cell Lines and the Larvae of *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). Saudi Journal of

8. Nael Abutaha, AL-Zharani Mohammed, **Fahd A. Al-Mekhlafi**, Jameel Al-Tamimi, Ashraf M. A. Mashaly, Muhammad A. Wadaan (2017) Acute and Subacute Toxicity of Ethyl Acetate Fraction of *Cochliobolus spicifer* (Nelson) isolated from *Phoenix dactylifera* (Linnaeus) on Balb/c Mice. Research Journal of Biotechnology. Vol. 12, 9-13
9. Ashraf Mohamed Ali Mashaly, **Fahd A. Al-Mekhlafi** (2016). Necrophagous Diptera associated with decomposed rabbit carcasses in Riyadh, Saudi Arabia. Journal of Medical Entomology. 1192-1197.
10. Ahmed M. A. Ibrahim , Lamia A. Alrakan , Saleh Ahmed Alaifan , **Fahd Al-Mekhlafi**, and Ahmed Ch. Kassab. (2015). Temporal Analysis of 16 STR Loci in Human Blood Drawn from two Culicid Mosquitoes Cultured at Different Temperatures. Entomological Research 45, 268–274.
11. Mohammed Saleh Al-Khalifa a, Ashraf Mohamed Ali, Mashaly, Mohammed, Iqbal Siddiqui a, **Fahd Abdu Al-Mekhlafi** (2015). Samsun ant, *Brachyponera sennaarensis* (Formicidae: Ponerinae): Distribution and abundance in Saudi Arabia. Saudi Journal of Biological Sciences 22, 575–579.
12. Abutaha , N., Mashaly, A.M.A., **Al-Mekhlafi, F.A**, Muhammed Farooq, Mohammed Al-shami1, Muhammad A. Wadaan., (2015). Larvicidal activity of endophytic fungal extract of *Cochliobolus spicifer* on *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). Appl Entomol Zool. 50, 405-414
13. Nael Abutaha, Mohamad Al shami1 , **Fahd A. Al Mekhlafi**, and Mohamed A. Wadaan.(2014). Cytotoxic and antimicrobial activity of selected fungal isolates from soil of Yemen Republic. Saudi Journal of Biological Sciences. 20, 33-44
14. Abutaha, N., **Al-Mekhlafi F. A.**, (2014). Evaluation of the safe use of the larvicidal fraction of *Capparis cartilaginea* Decne. against *Aedes caspius* (Pallas) (Diptera: Culicidae) larvae. African Entomology, 22(4): 838–846.
15. Abutaha , N., Muhammad Farooq, **Al-mekhlafi , F. A .**, Baabbad Almohannad1, Sabir Shehata1 Wadaan, M.A.(2014). Evaluating Developmental Toxicity of Solvent Fractions Obtained from *Pulicaria glutinosa* on Zebrafish Embryo and their Antimicrobial Potential. Journal Of Pure And Applied Microbiology, 8(4):2679-2685.
16. Mashaly A.M.A., Farooq M., Hozzein W., Al-Qahtani A.M. & **Al-Mekhlafi F.A.** (2014). Assessment of toxic baits for the control of the samsun ant, *Pachycondyla sennaarensis* (Formicidae: Ponerinae). African Entomology . 22(1) : 204–209
17. Khaled, J.M., **Al-Mekhlafi F.A**, Mashaly A.M.A., Wadaan M. A., Khalel A.S , Abutaha N, (2014). Efficacy of entomopathogenic fungi isolated from the nest of the samsun ant, *Pachycondyla sennaarensis* against larvae of the mosquitoes *Aedes caspius* and *Culex pipiens* Entemologia Generalis. Entomologia Generalis. 35 :77–86
18. Abutaha , N., **Al-mekhlafi , F. A.**, Semlali Abdelhabib., Baabbad Almohannad., Wadaan, M.A. (2014). Aspergillus sydowi Metabolites Efficacies Against the Mosquito Larval *Culex pipiens* and *Aedes caspius* Population and Cytotoxicity After Purification With Column Chromatography. Research Journal of

19. Mashaly, A.M.A.; **Al-Mekhalafi, F.A.** and Al-qahtani, A.M. (2013). Foraging Activity and Food Preferences of Samsum Ant, *Pachycondyla sennaarensis* Bulletin of Insectology 66 (2):187-193.
20. Ghazzali, M. Khattab, S.A.N. Elnakady, Y.A. **Al-Mekhlafi, F.A.** Al-Farhan, K. El- Faham, A. (2013). Synthesis, structure, theoretical calculations and biological activity of sulfonate active ester new derivatives, Journal of Molecular Structure, 1046, 147-152
21. **Al-Mekhalafi, F.A.**, Abu Taha, N., Mashaly, A.M.A., Wadaan, M.A. (2013). Larvicidal Activity of Selected Xerophytic Plants Against *Culex pipiens* and *Aedes caspius* (Diptera: Culicidae). Pakistan journal of Zoology, vol. 45(1), 241-246
22. **Al-Mekhalafi, F.A.**, Al-Khalifa, M.S., Abu Taha, N., Ahmed, A.M., Mashaly, A.M.A., Wadaan, M.A. (2012). Structure of the sting and estimation of total and number of proteins in the venom of samsum ant *Pachycondyla sennaarensis* (Hymenoptera: Formicidae). Saudi Journal of Biological Sciences. Vol, 19, 187-193
23. **Al-Mekhalafi, F.A.**, Mashaly, A.M.A., Wadaan, M.A., Ahmed A. Mahmoud Abdel Mageed., Al-Mallah, N.M. (2011). Overlap effects of cyromazine concentration, treatment method and rearing temperature on the Southern cowpea weevil (*Callosobruchus maculatus* F.) reared on cowpea. African Journal of Microbiology Research Vol. 5(32), 5848-5853.
24. **Al-Mekhalafi, F.A.**, Mashaly, A.M.A., Hossam Ebaid., Wadaan, M.A., Al-Mallah, N.M. (2012). Control of the seed beetle *Callosobruchus muculatus* reared on chickpeas by different applicable conditions of the insect growth regulator, Cyromazine. Scientific Research and Essays Vol. 7(1), 55-60
25. **Al-Mekhalafi, F.A.**, Mashaly, A.M.A., Wadaan, M.A., Al-Mallah, N.M. (2012). Effect of different applicable conditions of the insect growth regulator (Cyromazine) on the Southern cowpea weevils, *Callosobruchus maculatus* reared on peas. Pakistan journal of Zoology, vol. 44(2), 481-488
26. **Al-Mekhalafi, F.A.**, Mashaly, A.M.A., Wadaan, M.A., Al-Mallah, N.M. (2012). Overlap effects of Cryomazine concentration, treatment method and rearing temperature on Southern cowpea weevil *Callosobruchus maculatus* reared on Mung bean. Pakistan journal of Zoology, vol 44(1), 285-290.
27. **Al-Mekhalafi, F.A.**, Mashaly, A.M.A., Wadaan, M.A., Al-Mallah, N.M. (2011). Cryomazine concentration and host type effects on the biology of the southern cowpea weevil *Callosobruchus maculatus* F. African journal of microbiology research, vol 5(20), 3321-3326.
28. Al-Khalifa, M.S., Ahmed, A.M., Mashaly, A.M.A., **Al-Mekhlafi, F.A.**, Khalil, G., Siddiqui, M.I., Ali, M.F. (2010). Studies on the distribution of *Pachycondyla sennaarensis* (Hymenoptera: Formicidae: Ponerinae) in Saudi Arabia. 1. Ar-Riyadh Region. Pakistan Journal of Zoology, vol. 42(6), 707-713
29. Siddiqui, M.I., Mashaly, A.M.A., Ahmed, A.M., **Al-Mekhlafi, F.A.**, Al-Khalifa, M.S. (2010). Ultrastructure of Antennal Sensilla of the Samsum ant, *Pachycondyla sennaarensis* (Hymenoptera: Formicidae: Ponerinae). African

30. **AAI-Mekhlafi, F.A (2009).** Biological effect of insect growth regulator (trigard) on *phthormaea opercullela* (zell.) (Gelechiidae: Lepidoptera). Saudi Journal of Biological Sciences. Vol, 16,207-216

B Future Activities

1. **Al-meKhalifa, F.A at al.,** The Use of Bioactive Botanical Extracts from Kingdom of Saudi Arabia to Eradicate Mosquitos and Their Toxicity Evaluation on Human Cell Lines and Zebrafish Embryos
2. **Al-meKhalifa, F.A at al.,** The Utility Of Forensic Entomology In Legal Medicine: A Study On Seasonal Carrion Insects In Saudi Arabia
3. **Al-meKhalifa, F.A at al.,** Isolate fungi associated with mosquito larvae in the Riyadh region and to evaluate their effectiveness against mosquito *Culex pipiens* and *Aedes caspiu*

C. Conferences

1. 2nd Saudi International Conference of Forensic Medicine and Sciences. Riyadh 5-8 March 2017.
2. The 2ND Saudi international biotechnology conference 2016 King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. February, 23-24.
3. Asian Conference on Engineering and Natural Sciences. Higher Education Forum, Tokyo, Japan, February 03-05, 2015
4. the 8th international congress of dipterology. The Senckenberg Nature Research Society, Kongresshotel Potsdam, Germany 10- 15 Aug 2014.
5. The Saudi International Biotechnology Conference, 2012. King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. September 18-19, 2012.
6. International Symposium on Insects, "Insect, Human & Environment" Kuala Lumpur, Malaysia, December 3-5, 2012.
7. The 2nd Saudi International Nanotechnology Conference (2SINC) 2012. King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. November 11-13, 2012.
8. Twenty-Sixth meeting of the Saudi Society for the Life Sciences: Climate change and biodiversity in collaboration with the University of Taif and the General Presidency of Meteorology and Environment Protection, and the Saudi Organization for the Protection of Wildlife Prince Sultan chair of the environment and wildlife (10-12/5/2011).
9. Third Biopesticide International Conference" held at St. Xavier's College, Manonmaniam Sundaranar University, Tamil Nadu, India from 28 - 30

November (2011).

10. Fourth Saudi Conference for Science: the contribution of colleges of Science in Saudi Arabia in the course of development. College of Science, Taibah University, Al-Madinah Al-Monawwara, Saudi Arabia, (22-24/3/2010).
11. Conference of the Third Saudi Science titled new horizons in science and its applications. from 10 - 13 March 2007
12. Scientific Symposium of the Directorate of Otma as a prelude to announcing a nature reserve. Cultural Center - Sana'a from 14 -15 March, 1999 .
13. Agricultural Exhibition Yemeni Holland international I (Ajrich) -Agricultural Research Center in Tamar 22 - 27 February, 1998.

Workshops

2. Workshop arbitration books translated: the development of mechanisms. Translation Center. Ksu.20/4/2015.
3. Organized the workshop entitled: "Native mosquito larvicidal bacteria isolates as new candidates for control of mosquito –borne diseases in Saudi Arabia" in Zoology Department-Faculty of Sciences- King Saud University - From 07-08 /12/2014.
4. workshop entitled biological diversity insect kindergarten Khuraim King. Saud University- College of Food and Agricultural Sciences. 02/25/1434 H 01/07/2013.
5. A workshop entitled the role of centers of learning and teaching in the development of university education. King Saud University -Vice President for Academic Affairs and the Academy - Centre of Excellence in learning and education 01/03/2011.
6. Organized the The 2nd meeting entitled (Natural Products And Drug Discovery) in Chair Of Advanced Proteomics & Cytomics Research - Zoology Department- Faculty of Sciences- King Saud University - From 01-02 /05/2011.
7. Medical and Therapeutic Uses of Bee Products Scientific Evidences. faculty Medical King Saud University . April 24-25,2011
8. Workshop information security. King Saud University - Deanship of electronic trading and telecommunications, corresponding to 12/12/2010
9. DNA research: a gateway to knowledge economy. DNA research chair, King Saud University, 29/5/1430h.

Skills and training

1. Teaching based specialty and literature. Deanship of Skills Development. King Saud University, 15/05/1438h.
2. Safe and comfort learning environment. Deanship of Skills Development. King Saud University, 13/03/1438h.
3. Course design and construction. Deanship of Skills Development. King Saud University, 10-11/07/1437h.
4. Designing Interactive Presentation by Prezi. Deanship of Skills Development. King Saud University, 22/05/1437h.
5. Effective Course Instruction. Deanship of Skills Development. King Saud University, 19-20/05/1437h.
6. Feedback A Tool For Better Learning. Deanship of Skills Development. King Saud University, 25/04/1437h.
7. Competencies Of Professional Teaching.. Deanship of Skills Development. King Saud University, 18/04/1437h.
8. Building Test Question By Specification Table. Deanship of Skills Development. King Saud University, 14-15/04/1437h.
9. Flipped Learning. Deanship of Skills Development. King Saud University, 10-11/04/1437h.
10. Assessment Of Learning Outcomes. Deanship of Skills Development. King Saud University, 26-27/02/1437h.
11. Developing University Teaching Portfolio. Deanship of Skills Development. King Saud University, 20/02/1437h.
12. Outcomes based learning. Deanship of Skills Development. King Saud University, 17-18/02/1437h.
13. Publication in international Journals (ISI). Deanship of Skills Development. King Saud University, 13-14/02/1437h.
14. Building and managing teamwork. Deanship of Skills Development. King Saud University, 16-17/02/1436h.
15. quality management system in educational institutions(2008-9001ISO). Deanship of Skills Development. King Saud University, 08-10/02/1436h.
16. Polymerase chain reaction (PCR). DNA research chair, King Saud University, 24 May 2009

Participate in projects and applied research

1. Pharmacological Effects Of Secondary Metabolites From Microorganisms Isolated From Intestinal Tract Of Honey Bees In Riyadh Region. King Abdulaziz

City for Science and Technology (KACST), BS 34-112.

2. A Study Of Forensically Important Diptera In Riyadh Region, Saudi Arabia. King Abdulaziz City for Science and Technology (KACST), BS 34-68.
3. Isolation, characterization, in vitro and in vivo evaluation of *Phoenix dactylifera* endophyte extracts from Saudi Arabia. King Abdulaziz City for Science and Technology (KACST). 11-BIO2112-02
4. Research group RGP – 028. Deanship of Scientific Research, KSU.
5. Studies on the Samsun ant and the effectiveness of venom extract on breast cancer cells. Deanship of Scientific Research, KSU. (NLCP-1/2009).
6. The trail pheromone and humoral immune responses of the *Monomorium* ants (Hymenoptera: Formicidae): a step towards an integrated control strategy. Research center, College of Science. (Zoo/2009/44)
7. Environmental and medical survey of the Samsun ant, *Pachycondyla sennaarensis*, in Riyadh city, Saudi Arabia. Deanship of Scientific Research, KSU. (DSR-AR-2 (65))

REFERENCES

Available upon request